

Jayawanth Rayakota

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Summary — Software Engineer with **3+ years of experience** in full-stack development and **cloud-based systems**. Skilled in **Vue.js** to build **responsive frontends** and **Node.js, Spring Boot** to develop **efficient backend systems**. Experience in using **AWS** (EC2, S3, Lambda) to deploy and manage applications. Proficient in designing **RESTful APIs, RPC's** and using **Docker** for containerization to streamline deployments. Passionate about solving technical challenges and providing **scalable, maintainable** and user-focused solutions.

Experience

Upwork - USAApr 2024 – Present

Freelance - Full Stack & AI Engineer — Python, React, LLM, AWS — AI Agent — Automation

- **Architected & deployed a full-stack AI SaaS application** Using React/Next.js frontend and a Python FastAPI backend, containerized with Docker and deployed on AWS ECS. The system integrated OpenAI and Claude APIs to reduce manual data **processing time for clients by 40%**.
- **Engineered a custom Retrieval-Augmented Generation (RAG) system** for a client knowledge base, leveraging Pinecone for vector search and LangChain for orchestration. **This improved answer accuracy by over 60% and decreased hallucination rates by providing source-attributed responses.**
- **Developed an AI-powered automation workflow** that integrated CRM (via REST API), email, and document processing (AWS Textract) to automate a client’s lead intake process, **eliminating 15+ hours per week of manual administrative work.**
- **Designed and implemented a multi-agent AI system** using AWS Step Functions and Lambda to handle complex, multi-stage customer service tasks. The system autonomously classified requests, gathered information, and **resolved 70% of tier-1 support tickets without human intervention.**

KyndrylFeb 2022 – Dec 2023

Software Engineer - Application Services & Cloud Engineering

- **Led the end-to-end migration of a legacy monolithic system to a scalable microservices architecture** using **Spring Boot** and **Node.js**, while implementing **Redis caching** and **Kafka** for event-driven communication. This overhaul **reduced latency by 70%**, improved system scalability, and cut maintenance overhead.
- **Engineered high-performance, full-stack applications with Vue.js and Node.js** that enhanced **UI responsiveness by 30% and boosted sales by 15%**. Optimized backend performance by **reducing database calls by 20%** through advanced **MongoDB indexing** and server-side caching.
- **Designed and implemented real-time features including a chat system and notification service**, using the **Meteor Pub-Sub** model and **Kafka**. This **increased user engagement by 15%** and **grew the active user base by 10%** by significantly improving interactivity.
- **Architected and deployed scalable cloud solutions on AWS** using **EC2, Lambda, and S3**, automating infrastructure with Terraform. Introduced Playwright for test automation, **reducing bugs by 45% and cutting manual testing time by 30%** to ensure robust, efficient deployments.

Skills

Languages	JavaScript, Java, Python, TypeScript	Developer Tools	Git, BitBucket, JIRA, Confluence, Postman, Playwright
Frontend	Vue.js, React.js, Angular, Material UI, CSS.	DevOps / Cloud	AWS, Docker, Kubernetes, Terraform, Kafka
Backend	Node.js, Express.js, Spring Boot, MVC, Spring Security, JS, Firebase	Methodologies	Agile, Scrum, Microservices Architecture, REST API Design
Databases	MySQL, MongoDB, Oracle, PostgreSQL, DynamoDB, Redis	Additional	System Architecture, Performance Optimization, CI/CD

Education

University of North Carolina at Charlotte, NC, USAJan 2024 - May 2025

Master of Science in Computer Science

Major: Software Engineering & Data Science